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October 12, 2004

Mr. Gerald Thompson Environmental Assistant ALASKAN COPPER WORKS P. O. Box 3546 SEATTLE, WA 98124-3546

Dear Mr. Thompson:

In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a "RECYCLABLE MATERIAL PROFILE" (RMP) each contract year. Enclosed, for your records, is a completed RMP for the material generated at your plant. If a qualifier is indicated on the RMP, WRC has provided a quality assurance/quality control case narrative to validate the constituent's result(s).

The concentration of metals reported on the RMP is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me at (800) 972-1955 with any questions you may have regarding the enclosed RMP. Thank you for your interest in recycling.

Sincerely,

World Resources Company

Jason Hensley
Laboratory Manager

Enclosures

RECYCLABLE MATERIAL PROFILE

Form: FM-M01 **EXHIBIT A**

Generator Name: ALASKA	N COPPE	R WORKS	Company I.D. #: W2149A3
A. Generator Information		-	
1. Address: 3200 SIXTH AVE	NUE SOUTH	1	3. Material EPA Waste Code: D007
SEATTLE			4. Generator's EPA I.D. Number: WAD980738546
WA		98124	
2. Contact: Gerald Thompson	n		5. Generator's State I.D. Number:
Title: Environmental As			
B. Recyclable Material Characte	eristics		
1. Color(s): Gray		exture (similar to)	7. Appearance 9. Free Liquids (EPA SW 846, Method 9095)
		Wet Clay	· ·
		Dry Clay	
2. Odor (none,mild,strong)	==	Sand	Bilayered 10. Debris 11. Reactivity
None	·	Powder	Not Present ✓ Not Reactive
Description of Odor:	. —		
		Other	
3. Moisture (wet,damp,dry)	8. Organio		Present 12. Radionuclides (ASTM D5928-96)
Wet Parcent Solids: 96.0	✓ Not Pr		esent, identify compounds and Not Detected Detected
Percent Solids: 86.0	<u> </u>	amou	ount in ppm on a wet basis. 13. Cyanide Gas HCN
4. pH (EPA SW 846, (40 CFR § 261.21)	Pass		Not Detected
method 9040/9045) PASS	·		# -
pH: <u>5.28</u>	Fail		Detected ppm
C. Analytical Data		(Content on a	a dry weight basis in ppm or %)
Constituent *		Content Q	Qualifier Constituent * Content Qualifier
1. Aluminum ¹	Al	23149.9 ppm	
2. Antimony 1	Sb	< 25.0 ppm	20. Manganese 1 Mn 6984.4 ppm
3. Arsenic 1	As	61.7 ppm	21. Mercury 1 Hg < 1.0 ppm M2
4. Barium¹	Ва	< 10.0 ppm	22. Nickel 1 Ni 80779.9 ppm
5. Beryllium 1	Ве	< 10.0 ppm M2	
6. Bismuth 1	Bi	57.7 ppm	24 Silver 1 Ag < 5.0 ppm
7. Cadmium 1	Cđ	< 10.0 ppm	25. Thallium 1 Tl <25.0 ppm
8. Calcium ¹	Ca	1038.8 ppm M3	
9. Chloride 4	Cl		27. Zinc ¹ Zn <u>3072.6 ppm M3</u>
10. Chromium, Hexavale	nt 2 Cr +6	0.2 ppm	
11. Chromium, Total ¹	Cr	109449.1 ppm M3	
12. Cobalt 1	Co	1018.4 ppm M3	* Analytical Procedure References
13. Copper 1	Cu	85623.7 ppm	1. EPA Method SW846 3050 / 6010 (Digestion / Analysis)
14. Cyanide, Amenable ³	CN.	_ not analyzed	2. EPA Method SW846 3060 / 7196 (Extraction / Analysis)
15. Cyanide, Total ³	CN.	< 11.6 ppm Z3	3. EPA Method SW846 9010 / 9213 or 9014 (Distillation / Anaylsis)
16. Fluoride 4	F	0.00 %	4. HNO ₃ or H ₂ O ₂ / EPA Method SW846 9056 (Digestion / Analysis)
17. Iron 1	Fe	537801.3 ppm M3	
18. Lead ¹	Pb	48.5 ppm	
D. Certification			
hereby certify that all information s		his profile is complete	e and accurate to the best of my knowledge and belief.
Signed:	10	ne promo la campiana	
	-		Date: 10/12/04
Title: Laboratory Manager			AZ DHS #: AZ0586

AZF004\\F21 revised 4/30/2004

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QA/QC DATA

Form: FM-M01 **EXHIBIT A**

Generator Name: ALASKAN COPPER WORKS

Company I.D. #: W2149A3

QA/QC Criteria: All analyses met method criteria unless otherwise noted.

Explanation of Data Qualifiers:

М3

Matrix spike recovery was low, the method control sample recovery was acceptable.

The duplicate sample did not meet method acceptance limits due to the lack of sample homogeneity.

The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level.

The method control sample recovery was acceptable.

SAMPLE COLLECTION & ANALYSIS COMPLETION DATES

Form: FM-M01 **EXHIBIT A**

Generator Name: ALASKAN COPPER WORKS

Company I.D. #: W2149A3

	Constituent		Sample Date	Completion Date	Sample Technician
1.	Aluminum	Al	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
2.	Antimony	Sb	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
3.	Arsenic	As	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
4.	Barium	Ba	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
5.	Beryllium	Be	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
6.	Bismuth	Bi	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
7.	Cadmium	Cd	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
8.	Calcium	Ca	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
9.	Chloride	Cl	02/10/2004 14:55	02/11/2004 12:00	KEVIN MCALISTER
10.	Chromium, Hexavalent	Cr+	02/10/2004 14:55	02/24/2004 12:00	KEVIN MCALISTER
11.	Chromium, Total	Cr	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
12.	Cobalt	Со	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
13.	Copper	Cu	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
14.	Cyanide, Amenable	CN			
15.	Cyanide, Total	CN.	02/10/2004 14:55	02/12/2004 12:00	KEVIN MCALISTER
16.	Fluoride	F	02/10/2004 14:55	02/11/2004 12:00	KEVIN MCALISTER
17.	Iron	Fe	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
18.	Lead	Pb	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
19.	Magnesium	Mg	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
20.	Manganese	Mn	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
21.	Mercury	Hg	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
22.	Nickel	Ni	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
23.	Selenium	Se	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
24.	Silver	Ag	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
25.	Thallium	Tl	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
26.	Tin	Sn	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER
27.	Zinc	Zn	02/10/2004 14:55	03/08/2004 17:38	KEVIN MCALISTER